**UNITED STATES DEPARTMENT OF AGRICULTURE**
Farm Service Agency
Washington, DC 20250

**For:** State and County Offices

## Overlaps in the ArcGIS/ArcSDE Common Land Unit (CLU) Layer

**Approved by:** Acting Deputy Administrator, Farm Programs

# 1 Overview

## A Background

FSA has nearly completed the process of migrating its geospatial CLU data from the ArcView/shapefile environment to the ArcGIS/ArcSDE layer environment. The ArcGIS/ArcSDE environment assists in maintaining the integrity of the CLU linework data through topology rules built into the software. This prevents such things as overlaps, slivers, etc. to be loaded into the system or created within the layer.

**Note:** This notice does **not** apply to any Service Centers that have not migrated to ArcGIS/ArcSDE.

## B Purpose

This notice informs State and County Offices of the following:

- that overlaps are occasionally occurring in the ArcSDE CLU layer
- the actions that should be taken.

## C Overlaps in the ArcGIS/ArcSDE CLU Layer

Overlaps in the CLU layer have recently been reported in several counties throughout the country. At this time, the cause of these overlaps is unknown. However, the issue is being heavily researched by the National Office. The overlaps are appearing after the CLU data has been loaded into ArcSDE and editing has taken place on the CLU layer. They only appear on certain CLU polygons that have been edited, and the problem with these specific polygons is currently unknown. At this time, it is impossible to detect which polygons will eventually be affected by this issue. Once the overlaps appear, no editing other than deleting can be done on the affected polygons as the tool will report overlap errors.

| Disposal Date | Distribution |
|---|---|
| February 1, 2007 | State Offices; State Offices relay to County Offices |

**1      Overview (Continued)**

**A   Overlaps in the ArcGIS/ArcSDE CLU Layer (Continued)**

The overlaps are fixable in other GIS formats, such as coverage and shapefile.  However, this would require that the SDE/SQL database be completely deleted and recreated in the Service Center.  This would require a re-running of the dataloader, in which CLU acreages would be recalculated and in some cases changed, and all previous annotation work would be lost.  Consent and assistance of the National Office are required to complete this task.  Future direction will be provided on how to handle and fix these overlaps.

**2      State and County Office Action**

**A   County Office Action**

County Offices shall:

- run the overlap tool found in the quality control toolbar in Version 3.0.6 of the ArcGIS CLU Maintenance Tool on a regular basis

   **Note:**   See the ArcGIS CLU Maintenance Tool User Guide if assistance is needed.

- report any overlaps found in the CLU layer to their State GIS Specialist or Coordinator.

**B   State Office Action**

State Offices shall:

- assist County Offices in running the overlap tool, if necessary
- report overlaps found in County Office CLU layers to either of the following:

   - Todd Anderson at **todd.anderson@wdc.usda.gov**
   - Dan Culli at **daniel.culli@wdc.usda.gov**.